Amendments to the Claims:

external debugging tool,

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A microcomputer having a user mode and a debugging mode, and an on-chip debugging function, said microcomputer comprising: a central processing unit formed to be switchable between said user mode and said debugging mode, for executing instructions in each of said user mode and said debugging mode; a debugging terminal connected to a communications line for transferring debugging information, that is used for on-chip debugging, to and from an external debugging tool; and a switch that switches said central processing unit from said user mode to said debugging mode when a forced break is input through the debugging terminal that is not used in said user mode, except for inputting the forced break; a first monitor that transfers data to and from a second monitor, the first monitor determines a combination of at least two primitive commands from a group consisting of a primitive read command, primitive write command, and primitive GO command to be executed according to said data received from said second monitor, and performs processing for executing the determined combination of the at least two primitive commands, said second monitor being provided outside said microcomputer for converting a debugging command into the combination of at the least two primitive commands; and a debugging terminal connected to a communications line for transferring said data that is used for on-chip debugging in a half-duplex bidirectional manner, to and from an

said central processing unit executes a user program when in said user mode

and executes the primitive commands when in said debugging mode; and

said switch switches said central processing unit from said user mode to said

debugging mode when a forced break is input through said debugging terminal.

- 2-3. (Canceled)
- 4. (Previously Presented) The microcomputer as defined in claim 1, further comprising:

a holder that holds a terminal for the input of a forced break at a first level which is either one of high or low, during a state in which no external debugging tool is connected,

wherein said central processing unit starts execution in said user mode when said terminal for inputting said forced break is at said first level at a time of reset, or starts execution in said debugging mode when said terminal for inputting said forced break is not at said first level at a time of reset.

- 5-6. (Canceled)
- 7. (Original) Electronic equipment comprising:

the microcomputer of claim 1;

an input source of data that is to be a processing object of said microcomputer;

and

an output device for outputting data that has been processed by said microcomputer.

- 8-9. (Canceled)
- 10. (Original) Electronic equipment comprising:
 the microcomputer of claim 4;

an input source of data that is to be a processing object of said microcomputer;

and

an output device for outputting data that has been processed by said microcomputer.

11-12. (Canceled)

13. (Currently Amended) A debugging system for a target system including a microcomputer, and an on-chip debugging function, said debugging system comprising:

a second monitor that performs processing for converting a debugging command developed by a host system into at least one primitive commanda combination of at least two primitive commands from a group consisting of a primitive read command, primitive write command, and primitive GO command;

a first monitor that transfers data to and from said second monitor, determining a primitive commandthe first monitor determines the combination of the at least two primitive commands to be executed according to said data received from said second monitor, and executing performs processing for executing the determined primitive commandcombination of the at least two primitive commands;

a central processing unit formed to be switchable between a user mode and a debugging mode, for executing said primitive eommand commands in said user mode;

a debugging terminal provided on a chip including said central processing unit and connected to a communications line for transferring debugging information, that is used for on-chip debugging, to and from an external debugging tool; and

a switch that switches said central processing unit from said user mode to said debugging mode when a forced break is input through said debugging terminal not used in said user mode, except for inputting the forced break.